

David Bälz



Personal



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Summary

Enthusiastic wannabe scientist.

Experience in machine supported text analysis, patent data and emerging technologies.

Passion for learning and teaching.

Skills

IT

Microsoft Office



Python



SQL



Mathematica



Languages

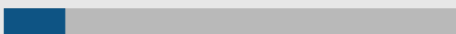
German



English



Spanish



Soft Skills

Presenting



Team Work



Work Experience

- Since 2015 **Research And Teaching Assistant** (details on 2nd page)
- Scientific support in project work and project acquisition
 - Independent research in the field of patent analysis
 - Exercises, lectures, and supervision of bachelor and master theses
- Chair in Economic Policy, Karlsruhe Institute of Technology.
- 2013–2015 **Student Research Assistant**
- Project BENEFIT on the financing of transport infrastructure
 - Analysis of European freight data
- Chair of Network Economics, Karlsruhe Institute of Technology.
- 2012 **Internship** (controlling and marketing)
Cockpit Charlie GmbH, Heilbronn.
- 2005–2006 **Alternative Civilian Service**
Assistant in the geriatric psychiatry ward,
Klinikum am Weissenhof, Weinsberg.

Education

- Since 2017 **Ph.D. candidate** (Department of Economics and Management)
Patent and publication analysis, text mining, emerging technologies,
Karlsruhe Institute of Technology.
- 2013–2015 **M.Sc. in Economics Engineering** (grade 1.3)
Specialising in Network and Transport Economics,
Karlsruhe Institute of Technology.
- 2006–2013 **B.Sc. in Economics Engineering** (grade 1.9)
Karlsruhe Institute of Technology.
- 1992–2005 **Abitur / A level** (grade 2.3)
Justinus-Kerner-Gymnasium, Weinsberg.

Personal Interests

Playing the guitar

Steel-string acoustic guitar player for nearly 15 years. What I lack in talent, I make up for with passion. Occasionally also teaching.

Cycling

Taking my bike to explore the nature of the nearby Rhein area helps me to put things into perspective and gives me some physical exercise.

References

Prof. Dr. Ingrid Ott

Chair in Economic Policy, Karlsruhe Institute of Technology,

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Prof. Dr. Kay Mitusch

Chair of Network Economics, Karlsruhe Institute of Technology,

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Research And Teaching Assistant

Chair in Economic Policy,
Karlsruhe Institute of Technology

Projects

Scientific assistant of Prof. Dr. Ingrid Ott in the Commission of Experts for Research and Innovation (EFI) of the German federal government:

- Report 2018 with focus on autonomous systems
- Report 2017 with focus on the internationalisation of R&D
- Report 2016 with focus on robotics

Research

My research interest lies in the machine supported analysis of textual data, especially patents and scientific publications. Using topic modelling and other methods of (unsupervised) machine learning, I try to identify patterns in emerging technologies. New technologies and innovations contribute significantly to economic growth and thereby to the prosperity of a society.

Teaching (in German and English)

- Lecture *Methods in Economic Dynamics* (with Prof. Dr. Ingrid Ott).
- Exercises accompanying the lectures of Prof. Dr. Ingrid Ott in *Spatial Economics* (master) and *Basic Principles of Economic Policy* (bachelor).
- Seminars (with Prof. Dr. Ingrid Ott), e.g. *Special topics in text mining*.
- Supervision of bachelor and master theses in the field of topic modelling and patent analysis.
- A comprehensive list of my teaching activities can be found here: <http://wipo.econ.kit.edu>

Administration

- IT representative of the chair
- Planning, coordinating and executing written examinations of the chair
- Crediting of exchange students' courses taken abroad and during former studies and coordinating the modular course system of the chair